Flood Control Project Maintenance
Levee Inspections

LMA District Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 1601 Twitchell

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.

Comments

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles
Unit No. 01 Threemile Slough	Left	2.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/22/2018 - 3/22/2018			
DWR Inspector	Keith Millard			
Accompanied By	Rick Carter RD1601			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:
a) completion of the inspection
b) any changes other than the results of normal maintenance
c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**0.00**	Rating **	A	Issue No.	**6**
LM End	**0.00**	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			° °	° °
DWR ID	DWR_RD1601_01_s _ 2013_6				

Comment Code

Inspector Comment

LMA has a copy of the O & M Manuals on file at the office.

No Photos

LM Start	**0.00**	Rating **	A	Issue No.	**7**
LM End	**0.00**	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			° °	° °
DWR ID	DWR_RD1601_01_s _ 2013_7				

Comment Code

Inspector Comment

LMA has adequate floodfight supplies on hand.

No Photos

LM Start	**0.00**	Rating **	A	Issue No.	**8**
LM End	**0.00**	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			° °	° °
DWR ID	DWR_RD1601_01_s _ 2013_8				

Comment Code

Inspector Comment

LMA staff is trained.

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**0.11**	Rating **	M	Issue No.	**18**
LM End	**0.11**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120716 °	38.120716 °
				-121.682796 °	-121.682796 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:22043
DS_ID:20950
EP_NO: 11227
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment.
FIELD_STRUCT_DESC: 14-inch pipe (not 12-inch pipe as original description noted) through the levee, 4 feet below the crown. Siphon primer on waterside (WS) shoulder. 36-inch steel (not concrete as original description noted) pipe with shut-off valve inside at landside (LS) toe ditch. (12-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11227, 1975-Standard Oil of California; no permit found for 14-inch pipe) [Additional Reference(s): DWR Levee Logs, 2005]
FS Date: 5/14/2013

Photo 1 of 3 : UCIP_SP_2018_22043_37621.jpg

View of waterward side. 12-inch pipe to the right and 14-inch pipe to the left.

LM Start	**0.11**	Rating **	M	Issue No.	**18 (cont)**
LM End	**0.11**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_22043_37622.jpg

View of landward side with canal located at toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**0.11**	Rating **	M	Issue No.	**18 (cont)**
LM End	**0.11**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120716 °	38.120716 °
				-121.682796 °	-121.682796 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:22043
DS_ID:20950
EP_NO: 11227
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment.
FIELD_STRUCT_DESC: 14-inch pipe (not 12-inch pipe as original description noted) through the levee, 4 feet below the crown. Siphon primer on waterside (WS) shoulder. 36-inch steel (not concrete as original description noted) pipe with shut-off valve inside at landside (LS) toe ditch. (12-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11227, 1975-Standard Oil of California; no permit found for 14-inch pipe) [Additional Reference(s): DWR Levee Logs, 2005]
FS Date: 5/14/2013

Photo 3 of 3 : UCIP_SP_2018_22043_37624.jpg

View of pipes located on landward side-dense vegetation along slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**0.11**	Rating **	M	Issue No.	**19**
LM End	**0.11**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120708 °	38.120708 °
				-121.682798 °	-121.682798 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:42024
DS_ID:20953
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears this crossing might have been recently modified--O&M manual calls for 8 inch pipe not 12 inch pipe, need additional information--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment.
FIELD_STRUCT_DESC: 12-inch (not 8 inch listed in USACE) siphon through the levee approximately 3.2 feet below the crown. The existing 8-inch pipe listed in the O&M manual is no longer present, no permit was found authorizing crossing modifications. [Additional Reference(s): USACE Sacramento O&M Manual Unit No. 102, April 1959, (HLM 0.1), 8-inch pipe]
FS Date: 5/14/2013

Photo 1 of 3 : UCIP_SP_2018_42024_60809.jpg

View of waterward side. 12-inch pipe on the right (u/s) and 14-inch pipe on the left (d/s).

LM Start	**0.11**	Rating **	M	Issue No.	**19 (cont)**
LM End	**0.11**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_42024_60810.jpg

View of pipes from landward shoulder. Levee is a gravel road.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**0.11**	Rating **	M	Issue No.	**19 (cont)**
LM End	**0.11**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.120708 °	38.120708 °
				-121.682798 °	-121.682798 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:42024
DS_ID:20953
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears this crossing might have been recently modified--O&M manual calls for 8 inch pipe not 12 inch pipe, need additional information--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment.
FIELD_STRUCT_DESC: 12-inch (not 8 inch listed in USACE) siphon through the levee approximately 3.2 feet below the crown. The existing 8-inch pipe listed in the O&M manual is no longer present, no permit was found authorizing crossing modifications. [Additional Reference(s): USACE Sacramento O&M Manual Unit No. 102, April 1959, (HLM 0.1), 8-inch pipe]
FS Date: 5/14/2013

Photo 3 of 3 : UCIP_SP_2018_42024_60812.jpg

View of pipes on landward side-dense vegetation along slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**0.79**	Rating **	M	Issue No.	**20**
LM End	**0.79**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111078 °	38.111078 °
				-121.682011 °	-121.682011 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50031
DS_ID:20958
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 8/02/2016 LMA representative, Rick Carter, was notified on 7/5/2016 by Underground Service Alert that no pipe line was idenfied within RD1601 levees. UCIP will need to coordinate with PG&E directly to determine fate of crossing. This crossing was downgraded from Urgent to Non-Urgent due to the crossing not in service. (DWR UCIP - omagana)7/05/2016 No markers present. According to LMA representative, Rick Carter, this crossing is an abandoned PG&E 450 low pressure line. LMA representative is coordinating with Underground Service Alert (USA) to confirm location of crossing. Once USA provides location Rick Carter will provide photos of location and overview photos of crossing to Olivia M (DWR UCIP). Pending Action - Need to coordinate with PG&E to determine details about the year and method of pipe abandonment. (DWR UCIP - omagana)5/14/2013 no markers or signs available--will need to coordinate with owner to determine if crossing is still being used or abandoned. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 12-inch steel 450 low pressure gas line through the levee at an unknown depth. Facility on landside (LS)-not found in 2013. USACE Drawing indicates gas line and facility were relocated. (LMA representative believes PG&E abandoned line). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 102, April 1959, Drawing No. 50-4-2958].
FS Date: 7/5/2016

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

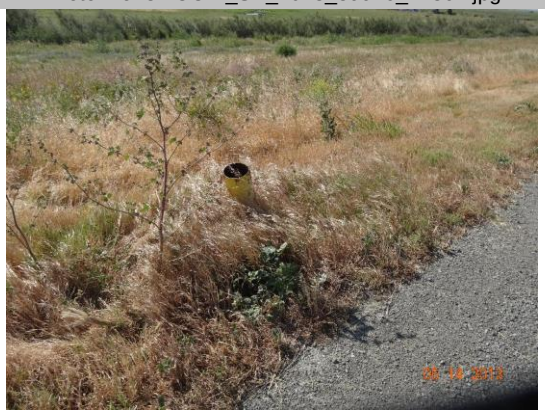
LM Start	**0.79**	Rating **	M	Issue No.	**21**
LM End	**0.79**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111078 °	38.111078 °
				-121.682011 °	-121.682011 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39946
DS_ID:24069
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landside (LS) shoulder. Rip rap located on waterside (WS) slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
FS Date: 3/19/2009

Photo 1 of 3 : UCIP_SP_2018_39946_71862.jpg



View of landward side--standpipe located on slope.

LM Start	**0.79**	Rating **	M	Issue No.	**21 (cont)**
LM End	**0.79**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39946_71860.jpg

View of landward side--dense vegetation along slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**0.79**	Rating **	M	Issue No.	**21 (cont)**
LM End	**0.79**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111078 °	38.111078 °
				-121.682011 °	-121.682011 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39946
DS_ID:24069
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landside (LS) shoulder. Rip rap located on waterside (WS) slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
FS Date: 3/19/2009

Photo 3 of 3 : UCIP_SP_2018_39946_71861.jpg

PVC pipe inside standpipe located on landward side.

LM Start	**0.88**	Rating **	C	Issue No.	**15**
LM End	**0.88**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.109753 °	38.109753 °
				-121.682200 °	-121.682200 °
DWR ID	DWR_RD1601_01_f _ 2017_15				

Comment Code

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

LMA has rodent control program in place. New rodent activity recently identified and is being addressed.

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**1.40**	Rating **	M	Issue No.	**22**
LM End	**1.40**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.102422 °	38.102422 °
				-121.684289 °	-121.684289 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39947
DS_ID:24068
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landside (LS) shoulder. Rip rap located on waterside (WS) slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
FS Date: 3/19/2009

Photo 1 of 3 : UCIP_SP_2018_39947_71865.jpg

View of landward side.

LM Start	**1.40**	Rating **	M	Issue No.	**22 (cont)**
LM End	**1.40**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39947_71866.jpg

PVC inside standpipe located on landward side.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**1.40**	Rating **	M	Issue No.	**22 (cont)**
LM End	**1.40**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.102422 °	38.102422 °
				-121.684289 °	-121.684289 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39947
DS_ID:24068
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landside (LS) shoulder. Rip rap located on waterside (WS) slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
FS Date: 3/19/2009

Photo 3 of 3 : UCIP_SP_2018_39947_71864.jpg

View of waterward side -- rip rap located along waterward toe.

LM Start	**1.77**	Rating **	M	Issue No.	**23**
LM End	**1.77**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.097105 °	38.097105 °
				-121.684815 °	-121.684815 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39948
DS_ID:24071
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landside (LS) shoulder. Rip rap located on waterside (WS) slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
FS Date: 3/19/2009

Photo 1 of 3 : UCIP_SP_2018_39948_71869.jpg

Standpipe located on landward side.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**1.77**	Rating **	M	Issue No.	**23 (cont)**
LM End	**1.77**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.097105 °	38.097105 °
				-121.684815 °	-121.684815 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:39948
DS_ID:24071
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to determine if line crosses levee. Need to contact owner to determine if crossing goes through levee. Also need to determine permit authorizing work on landward side.
FIELD_STRUCT_DESC: Steel stand pipe with PVC pipe inside located on landside (LS) shoulder. Rip rap located on waterside (WS) slope. Unable to determine if crossing goes through levee. Appears to be monitoring gas well.
FS Date: 3/19/2009

Photo 2 of 3 : UCIP_SP_2018_39948_71868.jpg

View of landward side.

LM Start	**1.77**	Rating **	M	Issue No.	**23 (cont)**
LM End	**1.77**	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_39948_71867.jpg

View of waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**1.92**	Rating **	C	Issue No.	**17**
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.094990 °	°
				-121.684240 °	°
DWR ID	DWR_RD1601_01_s _ 2018_17				

Comment Code

Inspector Comment

Levee Evaluation Comments
Description:
Site ID No:76
Site Designation:DWR_RD1601_01_R_2012_03
Repair Type: Seepage
Rating:
Field Date:
Notes:

No Photos

LM Start	**1.97**	Rating **	A	Issue No.	**4**
LM End	**1.97**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.094153 °	38.094153 °
				-121.684697 °	-121.684697 °
DWR ID	DWR_RD1601_01_s _ 2018_4				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Landside vegetation is well managed.

Photo 1 of 1 : SP_2018_RD1601_237_4_20180322_00020.jpg

Well managed landside vegetation.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**2.05**	Rating **	M	Issue No.	**24**
LM End	**2.05**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.093107 °	38.093107 °
				-121.684525 °	-121.684525 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:19545
DS_ID:20951
EP_NO: 2909A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. Dense vegetation on landward slope limits the inspector's visibility to identify signs of leaks along levee slope.
FIELD_STRUCT_DESC: 8-inch siphon irrigation pipe through levee, 2.4 feet below crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landside (LS) shoulder. Hand primer pump on LS slope. (8-inch pipe authorized under Permit No. 2909A, 1960-J. Souza). [Additional Reference(s): DWR Levee Logs, 2005]
FS Date: 5/14/2013

Photo 1 of 3 : UCIP_SP_2018_19545_33173.jpg

View of levee crown looking downstream at crossing.

LM Start	**2.05**	Rating **	M	Issue No.	**24 (cont)**
LM End	**2.05**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_19545_33174.jpg

View of levee crown looking upstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.43	03/22/2018 03/22/2018	Keith Millard

LM Start	**2.05**	Rating **	M	Issue No.	**24 (cont)**
LM End	**2.05**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.093107 °	38.093107 °
				-121.684525 °	-121.684525 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:19545
DS_ID:20951
EP_NO: 2909A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears this crossing might be been recently modified--exposed section of pipe is protected with white paint. Need to contact owner to obtain records. Recommend clearing vegetation along the pipe alignment. Dense vegetation on landward slope limits the inspector's visibility to identify signs of leaks along levee slope.
FIELD_STRUCT_DESC: 8-inch siphon irrigation pipe through levee, 2.4 feet below crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landside (LS) shoulder. Hand primer pump on LS slope. (8-inch pipe authorized under Permit No. 2909A, 1960-J. Souza). [Additional Reference(s): DWR Levee Logs, 2005]
FS Date: 5/14/2013

Photo 3 of 3 : UCIP_SP_2018_19545_33171.jpg

View of crossing on waterward slope. Rip rap present at waterward toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement